Western Area Power Administration
Sierra Nevada Region

Date: **April 1, 2005**

12-Month Forecast of CVP Generation and Base Resource

April 2005 Through March 2006

Values at Tracy Substation

Exceedence Level: **90% (Dry)**

Month	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource			Add'l CVP Capacity w/minimal Energy
	CVP Maximum Capability (MW)	CVP Energy Generation (GWh)	Peak Project Use Demand (MW)	Project Use (PU) Load Energy (GWh)	First Pref. (FP) Peak Demand (MW)	First Pref. (FP) Load Energy (GWh)	Estimated Ancillary Services Capacity (MW)	PU Forward Purchase Off-Peak Energy (GWh)	PU & FP Capacity Purchase Reqmts. (MW)	PU & FP Energy Purchase Reqmts. (GWh)	CVP Corp Bank Energy for PU and FP (GWh)	Return Energy to CVP Corp (GWh)	Ancillary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)	Capacity Factor (%)	
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Apr-05	1,303.2	306.0	71.5	47.0	24.7	11.2	110.0	0.0	0.0	0.0	0.0	0.0	0.0	1,097.0	247.7	31.4	0
May-05	1,415.0	445.2	105.4	69.1	27.9	12.7	110.0	0.0	0.0	0.0	0.0	9.4	0.0	1,148.2	354.1	41.5	0
Jun-05	1,498.6	548.6	147.3	99.7	29.6	12.4	110.0	0.0	0.0	0.0	0.0	9.0	0.0	1,190.3	427.6	49.9	0
Jul-05	1,550.6	598.1	261.5	162.7	34.2	14.8	110.0	0.0	0.0	0.0	0.0	7.7	0.0	1,125.7	412.9	49.3	0
Aug-05	1,438.4	488.9	224.9	149.4	32.0	13.6	110.0	0.0	0.0	0.0	0.0	7.7	0.0	1,053.8	318.1	40.6	0
Sep-05	1,459.0	317.4	192.0	112.8	28.1	12.2	110.0	0.0	0.0	0.0	0.0	0.0	0.0	1,128.8	192.4	23.7	0
Oct-05	937.7	239.4	145.7	119.7	24.6	12.3	110.0	16.4	0.0	0.0	0.0	0.0	0.0	657.4	123.9	25.3	0
Nov-05	927.8	175.5	147.3	128.3	27.6	12.7	110.0	16.0	0.0	0.0	0.0	0.0	0.0	642.9	50.5	10.9	0
Dec-05	853.7	106.7	142.9	141.9	30.2	14.1	110.0	16.4	0.0	32.9	-35.9	0.0	0.0	570.6	0.0	0.0	0
Jan-06	1,132.7	124.6	138.7	148.2	31.2	14.4	110.0	17.2	0.0	20.9	-23.9	0.0	0.0	852.9	0.0	0.0	0
Feb-06	1,155.5	104.0	159.9	129.9	27.9	11.7	110.0	14.4	0.0	23.2	-26.2	0.0	0.0	857.7	0.0	0.0	0
Mar-06	873.6	193.6	151.7	149.7	26.1	12.3	110.0	15.6	0.0	0.0	0.0	0.0	0.0	585.8	47.2	10.8	0
Total		3,648.0		1,458.4		154.4		96.0		77.0	-86.0	33.7			2,174.4		

Exceedence Level **50% (Average)**

Month	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource			Add'l CVP Capacity w/minimal Energy
	Maximum CVP Capacity (MW)	CVP Energy Generation (GWh)	Peak Project Use Demand (MW)	Project Use (PU) Load Energy (GWh)	First Pref. (FP) Peak Demand (MW)	First Pref. (FP) Load Energy (GWh)	Estimated Ancillary Services Capacity (MW)	PU Forward Purchase Off-Peak Energy (GWh)	PU & FP Capacity Purchase Reqmts. (MW)	PU & FP Energy Purchase Reqmts. (GWh)	CVP Corp Bank Energy for PU and FP (GWh)	Return Energy to CVP Corp (GWh)	Ancillary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)	Capacity Factor (%)	
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Apr-05	1,305.4	270.3	92.6	56.5	24.7	11.2	110.0	0.0	0.0	0.0	0.0	0.0	0.0	1,078.1	202.5	26.1	0
May-05	1,431.1	478.5	106.3	72.3	27.9	12.7	110.0	0.0	0.0	0.0	0.0	9.4	0.0	1,163.3	384.2	44.4	0
Jun-05	1,527.1	503.1	146.9	99.6	29.6	12.4	110.0	0.0	0.0	0.0	0.0	9.0	0.0	1,219.2	382.1	43.5	0
Jul-05	1,642.7	587.1	264.3	172.1	34.2	14.8	110.0	0.0	0.0	0.0	0.0	7.7	0.0	1,215.0	392.5	43.4	0
Aug-05	1,557.4	448.3	246.4	158.2	32.0	13.6	110.0	0.0	0.0	0.0	0.0	7.7	0.0	1,151.2	268.7	31.4	0
Sep-05	1,575.7	314.7	190.3	113.1	28.1	12.2	110.0	0.0	0.0	0.0	0.0	0.0	0.0	1,247.3	189.4	21.1	0
Oct-05	1,008.6	252.0	145.3	127.6	24.6	12.3	110.0	16.4	0.0	0.0	0.0	0.0	0.0	728.6	128.5	23.7	0
Nov-05	1,008.4	190.5	148.6	145.1	27.6	12.7	110.0	16.0	0.0	0.0	0.0	0.0	0.0	722.3	48.7	9.4	0
Dec-05	941.0	157.6	143.6	156.1	30.2	14.1	110.0	16.4	0.0	0.0	0.0	0.0	0.0	657.2	3.8	0.8	0
Jan-06	1,243.4	163.1	167.3	163.4	31.2	14.4	110.0	17.2	0.0	0.0	-0.6	0.0	0.0	935.0	2.4	0.4	0
Feb-06	1,267.4	174.0	156.2	148.4	27.9	11.7	110.0	14.4	0.0	0.0	0.0	0.0	0.0	973.3	28.3	4.3	0
Mar-06	878.0	210.1	152.0	151.4	26.1	12.3	110.0	15.6	0.0	0.0	0.0	0.0	0.0	589.9	61.9	14.1	0
Total		3,749.2		1,563.8		154.4		96.0		0.0	-0.6	33.7			2,093.2		

Exceedence Level **10% (Wet)** **- (Not Available)**

Month	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource			Add'l CVP Capacity w/minimal Energy
	Maximum CVP Capacity (MW)	CVP Energy Generation (GWh)	Peak Project Use Demand (MW)	Project Use (PU) Load Energy (GWh)	First Pref. (FP) Peak Demand (MW)	First Pref. (FP) Load Energy (GWh)	Estimated Ancillary Services Capacity (MW)	PU Forward Purchase Off-Peak Energy (GWh)	PU & FP Capacity Purchase Reqmts. (MW)	PU & FP Energy Purchase Reqmts. (GWh)	CVP Corp Bank Energy for PU and FP (GWh)	Return Energy to CVP Corp (GWh)	Ancillary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)	Capacity Factor (%)	
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Apr-05													0.0	0.0	0.0	0.0	
May-05													0.0	0.0	0.0	0.0	
Jun-05													0.0	0.0	0.0	0.0	
Jul-05													0.0	0.0	0.0	0.0	
Aug-05													0.0	0.0	0.0	0.0	
Sep-05													0.0	0.0	0.0	0.0	
Oct-05													0.0	0.0	0.0	0.0	
Nov-05													0.0	0.0	0.0	0.0	
Dec-05													0.0	0.0	0.0	0.0	
Jan-06													0.0	0.0	0.0	0.0	
Feb-06													0.0	0.0	0.0	0.0	
Mar-06													0.0	0.0	0.0	0.0	
Total		0.0		0.0		0.0		0.0		0.0	0.0	33.7			0.0		

Notes:

1. For the AS capacity (Column G), it was assumed that the Single Largest Contingency (SLC) was SMUD's Cambells Soup plant, 44% of which is assigned to Western, 40 MW of which is the spin requirement; or a transmission constraint on Western's system (80 MW). The capacity reservation was calculated as 40 MW spin for the SLC plus 40 MW for regulation. It was assumed that 52% of the total Base Resource in any hour will reside in the ISO area.
2. An average of 1.81 % losses would be assessed on both capacity and energy between generation and load.
3. Column Q denotes capacity at CVP plants with minimal energy (potentially useful for reserves.).
4. CVP Corp transactions (in monthly energy and equivalent capacity) were included to reflect a target of $4.537 million in the CVP Corp account at the end of the fiscal year. A 3 GWh planning margin is added to each month when receiving energy from CVP Corp. Timing and amount of transactions are subject to change.
5. CVP generation and Project Use data for 50% and 90% Exceedence Levels are based USBR March 2005 50% and 90% Exceedence water forecasts, respectively.
6. The energy generation in this forecast does not include the significant rainfall experienced in the last week of March. Those storms added significant storage to CVP reservoirs and increased snowpack as much as four feet in some basins. An analysis of the effect of those storms on power generation will not be available until Reclamation completes its April 2005 forecast. A very rough guess from the figures indicate that generation may have been enhanced by 5-10% from